FE119

Diagram No. 1210-3

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey ... Field Examination.

Field No.

Office No. ... FE-119

LOCALITY

State ... Massachusetts

General Locality ... Buzzards Bay

Locality ... South of West Island

19 53

CHIEF OF PARTY
H.O. Fortin

LIBRARY & ARCHIVES

DATE ... December 23, 1953

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previuosly registered as; FE No.9, 1953

FE No. 9

FE 119

Diag. Cht. No. 1210-3

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of SurveyHYDROGRAPHIC INVESTIGATION

Field No. Chart No. 252 Office NoF. E. No. 9, 1953

LOCALITY

MASSACHUSETTS

General locality BUZZARDS BAY

Locality South of WEST ISLAND

19.53

CHIEF OF PARTY

HENRY O. FORTIN

LIBRARY & ARCHIVES

DATE December 23,1953

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER NO F.E.No. 9, 1953

Field No. Chart No. 252

State	MASSACHUSETTS		
General locality	BUZZARDS BAY		
Locality	South of WEST ISLAND		
Scale	1/20,000	Date of survey	23 - 24 September 1953
Instructions dated.	16 September 1953		
Vessel	U.S.C. & G.S.S. B O	WEN	
Chief of party	HENRY O. FORTIN		
Surveyed by	H. O. Fortin, J. F.	Vance, Jr., and	R. H. Houlder.
Soundings taken by	fathometer, Hay to were	kax hand lead, XXX	X
Fathograms scaled	by B. R. Winter		
_	by R. H. Houlder		
Protracted by	Ships Office by Ships Off	ers	
Soundings penciled	by 56,05 Off	16045	
Soundings in fix	KAKK feet at MLV	V MOXICOX	
REMARKS:		` 	
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DESCRIPTIVE REPORT to accompany

HYDROGRAPHIC SURVEY H -

Field No. Chart 252

H. O. Fortin, Chief of Party Scale 1/20,000
U.S.C. & G.S. Ship BOWEN
23 - 24 September 1953.

A. PROJECT

This survey was executed in compliance with instructions dated 16 September 1953, to the Commanding Officer, Ship BOWEN.

B. SURVEY LIMITS AND DATES

The area surveyed covered the dumping-ground just south of West Island in Buzzards Bay, Massachusetts. Field operations began on 23 September 1953 and ended on 24 September 1953.

C. VESSELS AND EQUIPMENT

The Ship BOWEN, using portable fathometer No. 157SXP (Type 808-J), did wall the hydrography.

The BOWEN'S 16' aluminum skiff investigated the shoals with hand lead soundings.

The BOWEN'S 14' aluminum skiff, equiped with portable fathometer No. 100S \sim (Type 808-J), assisted in the location of the shoals.

D. TIDE AND CURRENT STATIONS

A tide staff was installed at Clark Point, New Bedford, Mass., and connected by levels to six previously established bench marks. Half hour observations were recorded during the time that hydrography was in progress. All records were forwarded to the Washington Office on 29 September 1953. Tide reducers were completed by the office and returned on 2 October 1953. These reducers were entered in the sounding volumes without further correction for time or height, as per instructions. Predicted tides were used in reducing soundings for application to the boat sheet.

Actual tides applied

No current stations were occupied.

E. BOAT SHEET

A copy of Chart No. 252 was used for a boat sheet.

Tracing made for smooth sheet

F. CONTROL STATIONS

There is attached to this report a list of signals used for control. All signals were charted landmarks with the exception of ARK (Clark Point Lighthouse 1934), which was plotted from triangulation data. All signals used have been circled in red on the chart used for a boat sheet.

G. SHORELINE AND TOPOGRAPHY

No work on revision of Shoreline or Topography was done.

H. SOUNDINGS

Soundings were obtained with Submarine Signal Company type 808-J depth recorder. Standard proceedure was used on obtaining bar checks in accordance with paragraph 557 of the Hydrographic Manual. Enclosed herewith are the bar check computations, a list of the initial corrections, a list of the settlement and squat corrections, and all information on tide reducers. The fathograms were also scanned for speed corrections, but they were found to be negligible.

Hand lead soundings were obtained using lead line No. 2 (60'). Lead line comparisons are shown on Page 19 of Volume No. 1.

I. CONTROL OF HYDROGRAPHY

Three point fixes on located shore objects were used for control of the survey.

J. ADEQUACY OF SURVEY

This survey complies with instructions, and is considered to be adequate and complete.

K. CROSSLINES

Sufficient cross lines (10 %) were run while investigating shoals, with discrepancies all under 5 %.

L. COMPARISON WITH PRIOR SURVEYS

No prior surveys were available

M. COMPARISON WITH CHART

The area surveyed was a dumping-ground and no soundings were shown on Chart No. 252, and therefore a comparison could not be made.

N. DANGERS AND SHOALS

Before the Ship BOWEN entered the area to be surveyed, an investigation of the reported 6' shoal, referred to in paragraph 2 of the instructions, was made with a 16' skiff. No signs of any 6' shoal could be found 200 yards north of the buoy (Pos. 1 - 5, a Day, Vol. 1). The position of the buoy was checked, and found to be 350 yards west of it's charted position. Another investigation was made north of this position, with no signs of a 6' shoal (Pos. 7 - 12, a Day, Vol. 1).

N. DANGERS AND SHOALS (continued)

The Ship BOWEN then accomplished the hydrography, and discovered five separate shoals which are listed below.

No.	Latitude	Longitude	Depth	<u>Position</u>
1.	41° 34' 02"	70° 50' 0&"	17261	92 - 93 A ~
2.	41° 34' 2Å"	70° 50। 82 ं॥	16241	43 - 44 A ~
3.	41° 34' 11"	70° 48′ 58′′′	13221	122 -123 A ~
4.	41 34 17"	70° 481 58"	13721	147 -148 A ~
5.	41° 341 2811	70° 48′ 58″	7/61	4 - 5 A, 25 - 26 B

These shoals were investigated with a skiff and hand lead soundings the following day. A second skiff joined the search equiped with a fath-ometer, and helped in the location of the shoals. As most of the shoals were actually sharp pinnacles, it was quite difficult to get the shallowest depth with a lead line. The second skiff equiped with fathometer found sharp pinnacles on Shoals Nos. 2, 3, and 4 which could not be located with a hand lead.

If the dumping-grounds is going to be closed and the area opened to navigation, it is recommended that the area be wire dragged.

P. AIDS TO NAVIGATION

Bell "2" was located with the skiff (Pos. No. 6, a Day, Vol. 1) on 23 September 1953, and found to have a Latitude of 41° 34' ½2", Longitude of 70° 49'023", and water depth of 31 feet. The same buoy was also located with the ship, (Pos. 62 - 63, A Day, Vol. 2). The buoy seemed to be about 350 yards to the west of it's charted position.

U. MISCELLANEOUS

Bottom samples were taken (Pos. 1, 11, 12, 18; a Day, Vol. 1).

Z. TABULATION OF APPLICABLE DATA

- 1. Four (4) volumes of level records (Forwarded to Wash. Office 9/29/53).
- 2. Tide Reducers & Curves, and correspondence on reducers.
- 3.Bar Check computations.
- 4. Initial corrections.
- 5.Settlement and Squat corrections.
- 6.Speed scanning.
- 7.Copy of Instructions.
- 8.Six (6) Bench Mark Recovery Notes.
- 9. Two (2) bundles of Fathograms.

(Items 2 through 9 (forwarded with (Descriptive Report,

(4 December 1953.

Respectfully submitted.

F Vance In Francisco

Approved and forwarded,

H. J. Seaborg, Cdr., USC&GS,

C. O., Ship BOWEN

LIST OF STATIONS

NAME used in Hydrographic Survey

ORIGIN OF STATION

ANT - Cormorant Rock, Landmark Chart No. 252.

ARK - Clark Point Lighthouse, 1934

ARMY - Tower (West Island), Landmark Chart No. 252.

CAT - Stack, Landmark Chart No. 252.

Approx. location - Lat: 41° 36' 47"; Long: 70° 54' 38".

DOG - Stack, Landmark Chart No. 252.

Approx. location - Lat: 41° 36' 24"; Long: 70° 54' 23".

FAIR - Tank, elevated, Landmark Chart No. 252.

HILL - Old Tower (Round Hill), Landmark Chart No. 252.

LIT - Little Black Rock, Landmark Chart No. 252.

ROCK - Black Rock, Landmark Chart No. 252.

TACK - Stack, Landmark Chart No. 252.

Approx. location - Lat: 41° 38' 04"; Long: 70° 53' 43".

	STATIST	CS FOR HYDR	OGRAPHIC SURV	EY H	-
		(1953)	
<u>Day</u>	Volume Number	Date	No. of Hand Lead Soundings	No. of Positions	Statute Miles of Sounding
A .	2	9/23/53		193	23.3
В	2	9/24/53	Time State	146	19.9
a	1 '	9/23/53	145	37	2.0
b .	1	9/24/53	28	28	3.0
			-	-	-
Tota	als		- 173	404	48.2

1.1 Square Statute Miles of Sounding.

TIDE NOTE

A tide staff was established at Clark Point, New Bedford, Massachusetts (Lat: 41° 35' 47"; Long: 70° 54' 01"), and half-hourly readings recorded. The staff was connected to six previously established bench marks. All records were forwarded to the Washington Office, where reducers were computed and forwarded to this Party.

VELOCITY CORRECTIONS

Fathometer No. 157SPX

A	Scale	-	23 -	24	September	1953
---	-------	---	------	----	-----------	------

0.0	from	0 to 12'
+ 0.5	from	12 to 38
+ 1.0	from	38 to 551

Peaks only

0.0	from	0 to 3'
+ 0.2	from	3 to 14'
+ 0.4	from	14 to 24!
+ 0.6	from	24 to 34!
8.0	from	34 to 44!
+ 1.0	from	44 to 541

CHART # 252 WEST ISLAND. (Initial Corrections)

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9/24/53	B	ALL	DAY	0					
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5 \$ 5 Corrections

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SPEED SCANNING

157 SPX

BUZZAROS BAY - WEST ISLAND

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SPEED SCANNING

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BUZZAROS BAY - WEST ISLAND

157 SPX

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Ship BOWEN P.O. Box 271, Newport, R.I.

29 September 1953.

TO:

The Director,

U.S. Coast and Geodetic Survey,

Department of Commerce, Washington 25, D.C.

SUBJECT:

Levels and Tide Reducers.

REFERENCE:

22/MEK, S-2-BN. Instructions, 16 September 1953.

Enclosed herewith are four (4) volumes of Leveling Records for the Special Hydrographic Investigation, south of West Island, Buzzards Bay, Massachusetts.

The leveling record in Volume No. 3 was compiled from Volumes Nos. 1 and 2.

In Volume No. 2, on pages 30 to 33 inclusive, will be found the readings from the staff at Clark Point, New Bedford.

On pages 32 and 33 of Volume No. 3 will be found the elevations as compiled directly from the different bench marks. On pages 34 and 35, the results were obtained as Mr. Houlder computed them through T.P. #2.

Volume No. 4 contains elevations as run by Mr. Vance after the hydrography had been completed.

It is requested that tide reducers for the above project be mailed as soon as possible for the following dates.

23 September 1953 - 0700 to 1700.

24 September 1953 - 0700 to 1700.

Henry O. Fortin, Comdr., USC&GS. Commanding Ship BOWEN.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY WASHINGTON 25

AND REFER TO NO. 36-r jb

2 October 1953

To:

Commanding Officer

U.S.C.& G.S Ship BOWEN

P. O. Box 271 Newport, R. I.

Subject:

Tide reducers

Enclosed for the periods listed in your letter of 29 September 1953 are hourly heights, referred to mean low water, for the reduction of soundings in the area south of West Island, Buzzards Bay. These heights are based on observed tides at Clark Point and can be used as tide reducers without further correction for either time or height of tide.

Acting Director

Enclosure

16 September 1953

To:

Commanding Officer USC&GS Ship BOWEN P. O. Box 271 Newport, Rhode Island

Subject:

SPECIAL HYDROGRAPHIC INVESTIGATION SOUTH OF WEST ISLAND, BUZZARDS BAY, MASSACHUSETTS

- 1. Prior to the end of the 1953 field season a hydrographic investigation shall be made in the vicinity of the dumping ground shown on chart No. 252, in latitude 41° 34.5°, longitude 70° 49.5°.
- 2. It is reported that a depth of about $6\frac{1}{2}$ feet now exists about 200 yards north of bell buoy No. 2. The purpose of the survey is to furnish new information on depths in the dumping-ground area.
- 3. The limits of the area to be surveyed are shown on a copy of chart No. 252, which is furnished.
- 4. The general spacing of sounding lines shall not exceed 100 meters. This line spacing shall be reduced where necessary to obtain the least depth on shoals, and to delineate the bottom configuration.
- 5. The least depth on shoals, which may be dangers to navigation, must be verified with the hand lead.
- 6. The survey shall be plotted on a copy of the latest print of chart No. 252. It is believed that there are sufficient charted objects in the vicinity to provide control for this survey. Copies of triangulation data in the vicinity are furnished.
- 7. Bell buoy No. 2 shall be located during the progress of the survey.
- 8. A tide staff shall be established at New Bedford (Clark Point), Buzzards Bay, and staff readings shall be recorded at half-hourly intervals during the time hydrography is in progress. The mean-low-water reading on the staff shall be obtained by connecting the tide staff with a minimum of three bench marks. A copy of the tidal data for Clark Point is furnished.

- 9. All work shall be in accordance with standard practices and the applicable operating manuals.
- 10. The records for this special investigation shall be processed and sent to the Washington Office at an early date after the field work is completed.
- 11. If at any time it appears advisable that the instructions contained in this letter be modified, you will submit your recommendations to this office.
 - 12. You will please acknowledge the receipt of this letter.

(Signed) R.F.A. Studds

cc. Supervisor, Southeastern District Supervisor, Northeastern District Chart Division (83) Tides & Currents Division (30 & 36) FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

PARTE POST VINEX PARTE E PER VIN TO SOME ENTRE

January 4, 1954

Division of Charts: R. H. Carstens

Plane of reference approved in 2 volumes of sounding records for

HYDROGRAPHICXSHEETX F E No. 9 1953

Locality Buzzards Bay, Massachusetts

Chief of Party: H. O. Fortin in 1953
Plane of reference is mean low water, reading
2.4 ft. on tide staff at New Bedford (Clark Point)
9.5 ft. below B. M. 7 (1931)

Height of mean high water above plane of reference is 3.7 feet.

Condition of records satisfactory except as noted below:

E.C.McKay

Estion of Tim

Chief, Division of Tides and Currents.

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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. F.E.No.9,1953

Records accompanying survey: Chart 252 used		
Boat sheets as a boat sounding vols. 2; w	ire drag	vols;
bomb vols; graphic recorder rolls	l Eny,	
special reports, etc. 1 Descriptive Report;	• • • • • •	• • • • • • • • • • • •
	• • • • • • •	
The following statistics will be submitted with rapher's report on the sheet:	th the c	artog-
Number of positions on sheet		404
Number of positions checked		72.
Number of positions revised		6.
Number of soundings revised (refers to depth only)		•••••
Number of soundings erroneously spaced		•••••
Number of signals erroneously plotted or transferred		
Topographic details	Time	••••
Junctions	Time	6
Verification of soundings from graphic record (Including preparation of fracing and partial replating)	Time	2
Verification by	40	Date 4/27/56
Reviewed by	.14	Date 5/2/56.

REVIEW OF FIELD EXAMINATION NO. 9 (1953)

- 1. The purpose of this field examination was to determine the present depths in the dumping ground southeast of New Bedford, Massachusetts. A report (C1-802/1953) of 6½-ft. depths 100 yards north of Bell Buoy No. 2 in lat. 41°34.2', long. 70°48.8' led to this examination of the dumping-ground area.
- 2. The sources of the control are given in the Descriptive Report. No shoreline is involved.
- 3. The field plotting was done using a copy of Chart 252 for the boat sheet. A tracing was made from the boat sheet during verification, and most of the positions pricked directly from the field plotting. The positions of least depths and positions not clearly identifiable in the congested parts of the boat sheet were replotted. Soundings with final reducers applied were inked on the tracing from the sounding volumes.
- 4. Comparison with Prior Surveys

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H-5882 (1935), 1:10,000 H-5883 (1935), 1:10,000 H-2901b (1907), 1:20,000

These surveys comprise the last complete prior coverage of the area of the present survey. A comparison between them and the present examination reveals considerable change in the bottom, as would be expected in a dumping ground. In addition to the shoaling from dumping it is probable that the present fathometer survey picked up some peaks that were missed in the prior leadline work in this area where sharp, pinnacle rocks abound. The following examples show the lesser depths which generally prevail on the present survey:

Prior depth (ft.)	<u>Latitude</u>	Longi tude	Present depth (ft.)
24-28 24 19 17-19, 34 17	41°34.05' 41°34.15' 41°34.4' 41°34.0' 41°34.57'	70°50.1' 70°49.95' 70°50.0' 70°48.85' 70°49.6' 70°49.4'	17 k 19 k 16 k 13 k 29 k 12 k

Several least depths have been carried forward from the prior surveys as, in this area of sharp pinnacles, the development of the present survey does not disprove the lesser depths. In addition to the soundings carried forward, adjoining soundings from the prior surveys of 1935 have been shown on the tracing, and depth curves carried to a smooth junction, to facilitate chart correction.

The present development of West I. Ledge in lat. 41°34.3', long. 70°50.3' is not complete. With the exception of that

area, and with the addition of the soundings carried forward, this field examination supersedes the prior surveys within the common areas.

5. Comparison with Chart 252 (latest print date 6/8/53)

A. Hydrography

No soundings are charted in much of the area of the present survey. Those charted are from the prior surveys previously discussed. The following notes are also charted:

- (1) The note "least depth 14 ft. Sept. 1953" applied as a hand correction from the boat sheet of this field examination.
- (2) The note "shoaling reported" added by hand correction north of Bell Buoy No. 2 on authority of Cl-802 (1953).

The present survey is adequate to supersede the charted information.

B. Aids to Navigation

Bell Buoy No. 2, charted in lat. 41°34.06', long. 70°48.82', was found by the present survey to be approximately 300 meters W N W of its charted position. There are no other aids to navigation charted within the area of the present survey.

6. This field examination is considered to be basic. However, in view of the prevalence of pinnacle rocks a wire drag survey would be required to establish the least depths beyond question, particularly in the ledge area in the vicinity of lat. 41°34.4', long. 70°49.9'.

L. V. Evans III

Inspected by - R. H. Carstens

Form 362
Ed. May, 1929
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY TIDES: HOURLY HEIGHTS Station: Buzzards Bay (south of West Island) Mass. Long. Observer: Lat. Time Meridian: 75°W Height datum is MLW which is _ ft. below B. M. 16-47802-1 U. S. GOVERNMENT PRINTING OFFICE d.d.d. Month | d.d. d. d.and Day Horizontal Sejot. 23 24 SumDay of Series Feet Feet Feet Feet Feet Feet Feet Feet Hour 0 1 2 3 5 6 7 4.9 4.4 8 4.7 5.0 9 3.6 4.7 10 1.9 3.5 11 0.5 1.7 Noon 0.2 -0.4 13 -0.6 -0.8 **4** . 14 -0.9 -1.0 15 -0.6 -0.8 16 -0.4 0.2 17 0.5 1.2 18 19 20 21 22

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DEPAF U.S.	FORD Ed. M RTMENT COAST AND	n 862 ay, 1929 OF COM GEODETIC S	MERCE URVEY	,	TIDE	ES: F	IOUI	RLY	HEI	GHT	S				
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Date.

Jours H-5883 (1935)

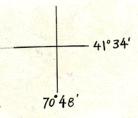
F. E. No. 9 (1953)

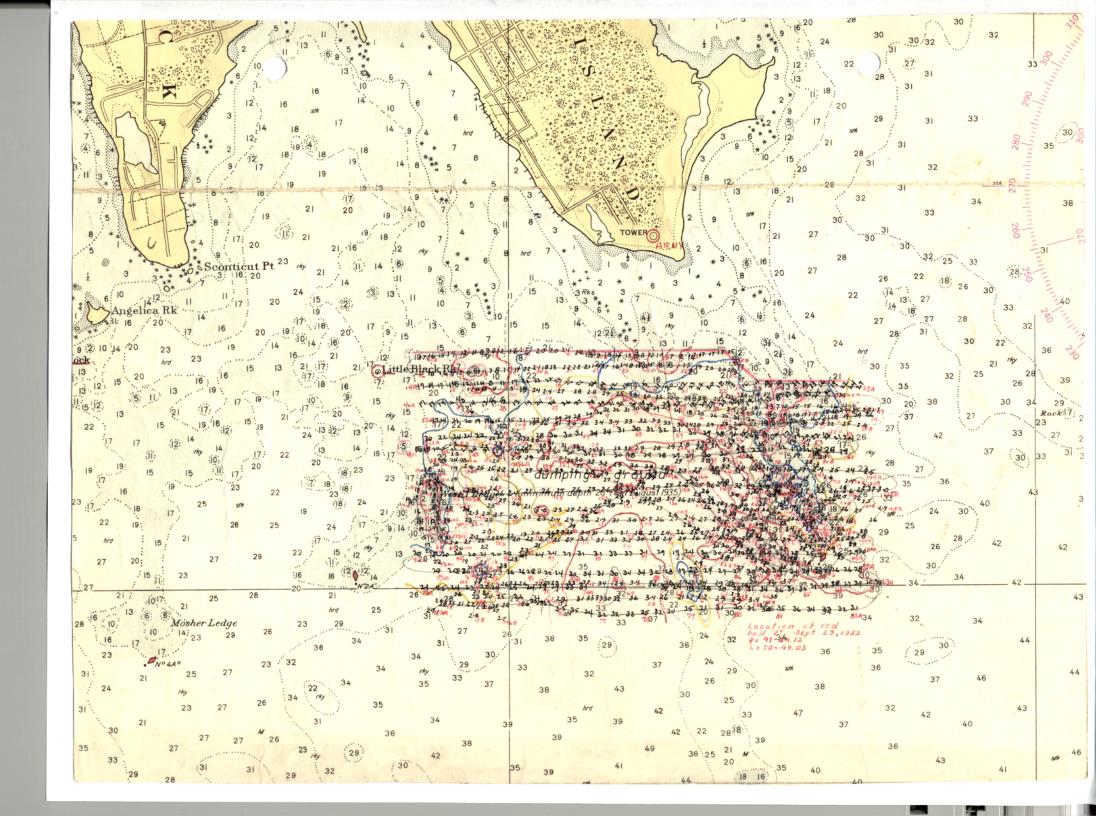
MASS. BUZZARDS BAY SOUTH OF WEST ISLAND Scale 1:20,000

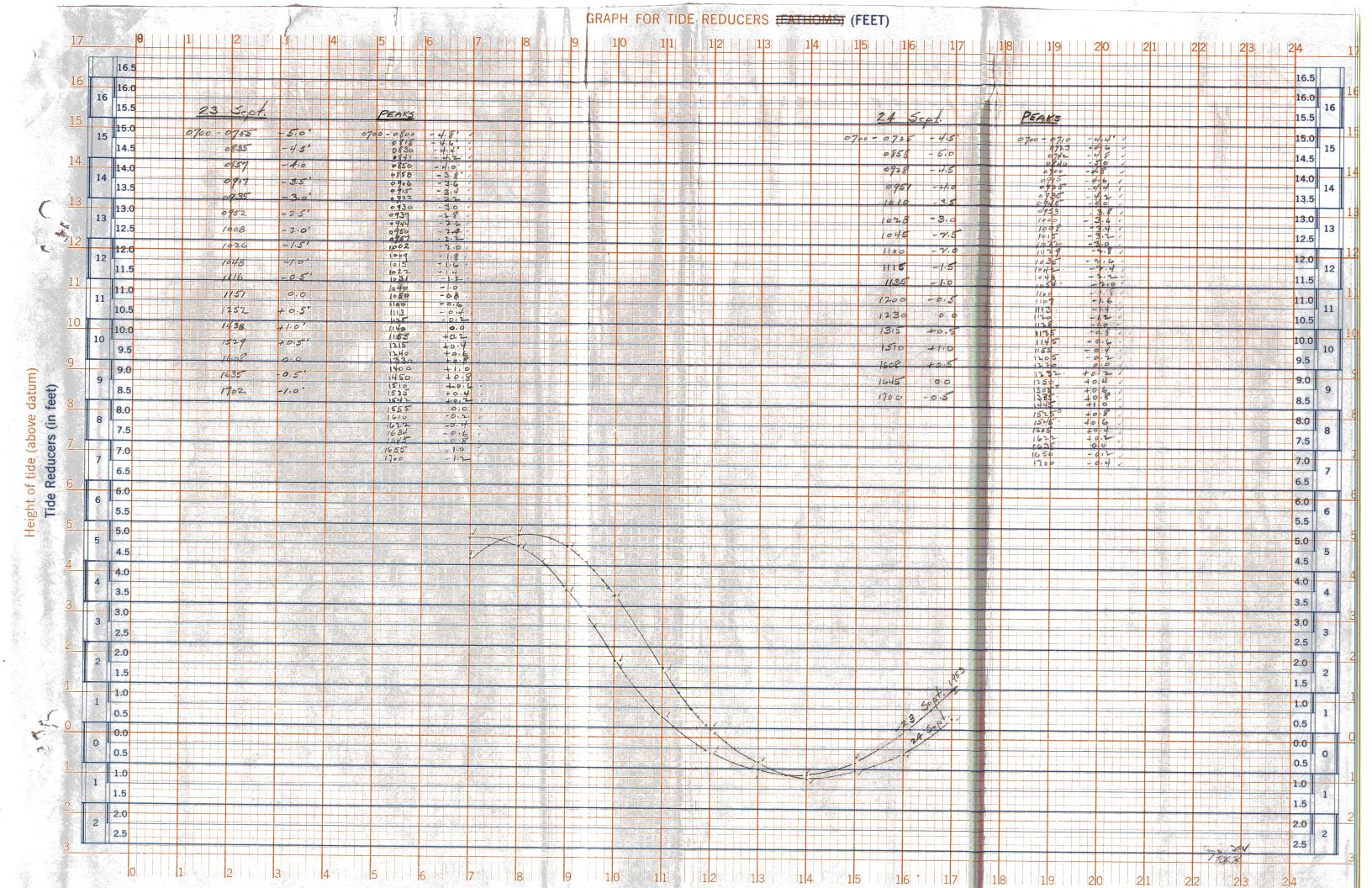
Joins H-5883 (1935)

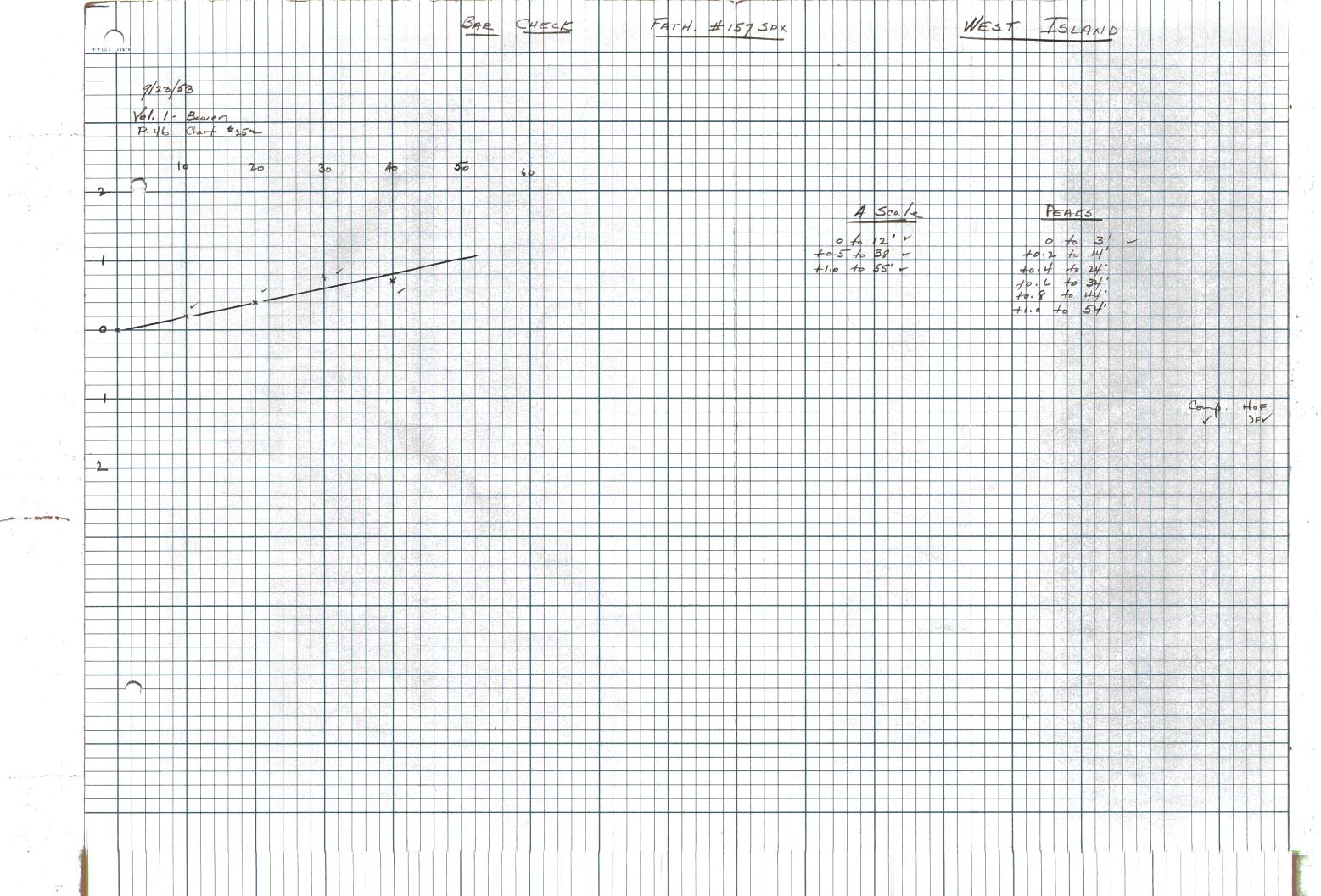
Sept. 1953

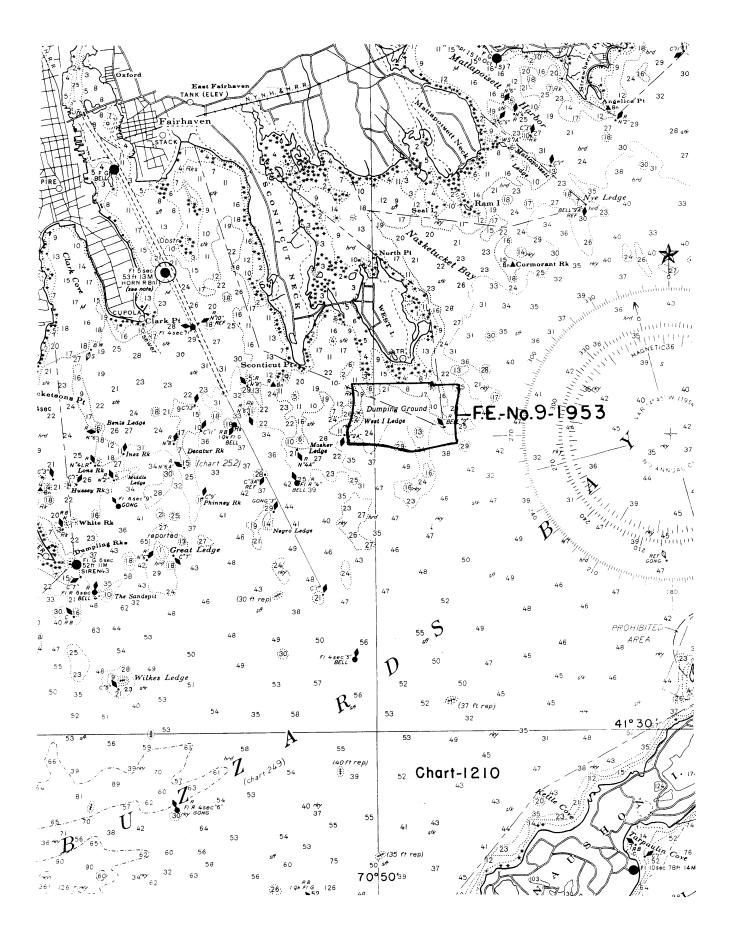
Soundings in feet at mean low water N.A. 1927 Datum











NAUTICAL CHARTS BRANCH

SURVEY NO. F.E.No.9,1953

Record of Application to Charts

CHART	CARTOGRAPHER	REMARKS
249	Eaton	Before After Verification and Review
1210	R.K. De Landse	Part. appl. Before After Verification and Review Strue Cht 249
252	Estealy	Before After Verification and Review
210 Rec.	R. S. House	After Verification and Review
		Before After Verification and Review
-		Before After Verification and Review
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	249 1210 252	249 Eaton 1210 R.K. De Lander 252 Esfearly 210 Rec. R. D. House

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.